	Middle Years Programme	Form F3.1
	Moderation coversheet: Subjects	

Please complete a copy of this form for **each** folder of work submitted for moderation.

Please ensure that the material being submitted for moderation conforms to the requirements set out in the relevant subject group guide. All the criteria **must be applied twice** within the folder accompanying this form, unless stated otherwise in the subject guide.

School: VICTORIA SHANGHAI ACADEMY School code: 002634

Student's name/number: Chun Hei Kwok Subject: MATHS (Extended)

The student's work is (please mark box):

[X] comparatively good [ ] average [ ] comparatively weak

Nature and title of assessment task		Criteria					
		A	B	C	D	E	F
1. **Summative Assessment (broad-based)**	Teacher	7		6			
	Moderator						
2. **Transformation**	Teacher			6			
	Moderator						
3. **Vectors and Matrices**	Teacher		7		5		
	Moderator						
4. **AP, GP, exponential, logarithms**	Teacher	8			6		
	Moderator						
5. **Probability and Sequences**	Teacher		3				
	Moderator						

Please use the reverse of this form or separate sheets to identify the conditions under which each piece of work was done (project, classroom test, end-of-term examination, and so on), the amount of support provided, any special circumstances, and general/specific information on the student. Provide any information that may assist the moderators in determining how the criteria were applied.

Name of teacher: William Wong

Signature of teacher: William Wong Date: June 3, 2013

Names of teachers involved in internal standardization for this subject:

Echo Li, Kenneth So, William Wong

Teacher's comments:

Task	Criterion	Remarks
Summative Assessment (broad-based)	A	**Chun Hei was awarded a 7 in criterion A. Chun Hei got Q2, 3, 4, 5, 9, 10, 11, 13 completely correct and Q1, 6, 7, 8 mostly correct. This means he is making appropriate deductions when solving challenging problems in a variety of contexts (different types of problems ranging from simple to unfamiliar). However he could not do Q12 (one of the two unfamiliar questions) and he also made minor mistakes in some of the other questions. Hence he is not consistently making appropriate deductions. For this reason he achieved a level 7 and not a level 8.**
	C	**Chun Hei achieved level 6 in Criterion C. He explained almost all problems in the paper step by step. The lines of reasoning were clear, concise, logical and complete. The mathematical language and representation used were consistently good. He moved effectively between different forms such as equations (2-5, 10-11), drawings, diagrams (Q8a, 9 10b) and proofs (6a, 13).**
Transformation	C	**Chun Hei achieved level 6 in Criterion C. The lines of reasoning were mostly clear, concise, logical and complete. The mathematical language and representation used were consistently good. He generally uses correct terminology. He moved effectively between different forms such as equations (1-3, 8), and word based explanation, (7, 9, 10, 15).**

Vectors and Matrices	B	**Chun Hei achieved a level 7. He was able to answer all questions in Part 1 though part (e) lacked an explanation and (f) and (n) were only partially right. This meant he was able to select and apply mathematical problem solving techniques to recognize patterns and describe them as general rules (d, e, and parts of j). Chun Hei also successfully drew conclusions consistent with findings (f). He was only able to prove mathematical relationships partially in (n) and (f) and hence could not achieve a level 8.**
	D	**In Part 2, Chun Hei answered (a), (b), (d), (e) correctly, got (c)(iv) partially correct but (c)(i)-(iii) wrong.** **He achieved a level 5 in Criterion D as he was able to recognise and explain the applications seen in the vector operations and explain how this answer makes sense in the context of the problem. In other words he critically explained whether his results make sense in the context of the problem.** **He was however unable to justify his degree of accuracy hence he was not awarded level 6.**
AP, GP, exponential, logarithms	A	**Chun Hei answered all questions apart from Q2 correctly. He justified why he thought his chosen model was appropriate and used it to make predictions, and also came up with an unfamiliar model that fit the new data. The mistake in Q2 was probably a careless mistake so he deserved a level 8.**
	D	**Chun Hei achieved level 6 in Criterion D. Not only did he talk about real life changes in Hong Kong, use percentage error to justify which model was more accurate in predicting waste, he also thought critically about the new model in the last question as a suggested improvement to his method.**
Probability and Sequences	B	**Chun Hei achieved a level 3 in criterion B. It was obvious from the tree diagrams in questions 2-4 that he had selected and applied a mathematical problem solving technique to recognize a simple pattern (in question 5 he states his pattern as <u>General Rule: $T_n=2^{-n}$</u>). Unfortunately, because he assumed a=b=0.5, he was unable to derive a truly general rule using a, b, and N and hence he achieved a level 3 and not a level 4.**